

ABSTRACT OF THE DISCLOSURE

Described herein is a mechanism that follows, at least in part, an object oriented design pattern. In particular, a class is used to model a shared resource as a shared resource object. The class creates one instance of the shared resource object in response to multiple

- 5 attempts to create a shared resource object from the class. The class defines various methods used to interact with the object. The object receives requests to perform operations from the clients. The clients may register another object to receive from the shared resource object notifications regarding events about the operations requested by the clients.